CLAIMS

1. A device (100) for automatically detecting markings of an ophthalmic lens (10; 10'), the device comprising a support (110) adapted to receive said lens (10; 10') and,

5   on either side of said support (110), firstly first illumination means (120) for illuminating the ophthalmic lens (10) installed on said support (110), and secondly first acquisition and analysis means (130) for acquiring and analyzing the light transmitted through said lens

10   (10; 10'), the device being characterized in that it includes an activatable and deactivatable pattern filter (140) between said first illumination means (120) and said support (110).

15   2. A device (100) according to claim 1, characterized in that the first acquisition and analysis means (130) are suitable for processing the signal output by the activated pattern filter in order to determine the positions of permanent markings of the ophthalmic lens.

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3. A device (100) according to claim 1 or claim 2, characterized in that it includes two polarizing filters, one disposed between said first illumination means (120) and said support (110), and the other disposed between

25   said support (110) and said first acquisition and analysis means (130).

4. A device (100) according to any one of claims 1 to 3, characterized in that said pattern filter (140) is formed

30   by a liquid crystal screen.

5. A device (100) according to claims 3 and 4, characterized in that the liquid crystal screen (140) also forms said polarizing filter disposed between said

35   first illumination means (120) and said support (110).

6. A device (100) according to claim 3 or claim 5,
characterized in that the polarization of the two filters
is arranged in a common direction substantially identical
to the polarization direction of the lens to be analyzed.

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7. A device (100) according to any one of claims 1 to 6,
characterized in that said first and second illumination
means (120) are activatable and deactivatable.

10   8. A device (100) according to any one of claims 1 to 7,
characterized in that it includes activatable and
deactivatable second illumination means (120') adapted to
illuminate an ophthalmic lens (10') installed on said
support (110) with light at grazing incidence, said first
15   acquisition and analysis means (130) being suitable for
analyzing the light beam transmitted through said lens
(10') illuminated with light at grazing incidence.

9. A device (100) according to any one of claims 1 to 8,
20   characterized in that said first acquisition and analysis
means (130) comprise a digital camera (134).

10. A device (100) according to claim 9, characterized in
that said first acquisition and analysis means (130)
25   include image processor means adapted to process the
signal obtained at the output from the camera (134) and
means for displaying the processed signal.

11. A device (100) according to claims 9 and 10,
30   characterized in that said first acquisition and analysis
means (130) include an optical system between the
downstream polarizing filter and the camera (134) for
deflecting a light beam and comprising a converging lens
(131) and a mirror (132) inclined at 45°.

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12. A device (100) according to any preceding claim,
characterized in that it has a frontofocometer including

firstly third illumination means (220) disposed laterally relative to said first illumination means (120) and adapted to generate a light beam directed onto an ophthalmic lens installed on said support positioned

5 facing said third illumination means, and secondly second acquisition and analysis means (230) for acquiring and analyzing the light beam transmitted through said lens installed on said support.

10 13. A device (100) according to claim 12, characterized in that the support (110) is displaceable in translation along two perpendicular axes.

14. A device (100) according to claim 13, characterized

15 in that it includes means for measuring the displacement of the support relative to an initial position.

15. A device (100) according to claim 14, characterized in that said measurement means comprise incremental

20 encoders.

16. A device (100) according to any one of claims 1 to 15, characterized in that said support (110) includes at least one passive pointer which, when illuminated by said

25 first illumination means (120) forms, in shadow, a positioning image on said first acquisition and analysis means (130) enabling the position of said support (110) to be determined in a stationary frame of reference.

30 17. A device (100) according to claim 16, characterized in that each passive pointer presents an outer or inner contour line that is polygonal.

18. A device (100) according to claim 17, characterized

35 in that each passive pointer presents an outer or inner contour line that is circular.

19. A device (100) according to claim 17, characterized in that each passive pointer presents an outer or inner contour line that is cruciform.